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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/505,145	04/08/2005	Steven Peter Colliver	056159-5241 9553	
	7590 07/05/2007 WIS & BOCKIUS LLP		EXAMINER	
1111 PENNSYLVANIA AVENUE NW			KALLIS, RUSSELL	
WASHINGTO	N, DC 20004		ART UNIT	PAPER NUMBER
		÷	1638	
		· 'Y		
	•	•	MAIL DATE	DELIVERY MODE
			07/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/505,145	COLLIVER ET AL.		
		Examiner	Art Unit		
		Russell Kallis	1638		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with th	ne correspondence address		
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply by vill apply and will expire SIX (6) MONTHS to cause the application to become ABANDO	ION.  be timely filed  from the mailing date of this communication.  ONED (35 U.S.C. § 133).		
Status			•		
1)🖂	Responsive to communication(s) filed on 20 Au	<u> </u>			
· <u> </u>	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E	х рапе Quayle, 1935 С.D. 11	, 453 O.G. 213.		
Dispositi	on of Claims				
5) 6) 7)	Claim(s) 1,2 and 22-39 is/are pending in the ap 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) is/are rejected.  Claim(s) is/are objected to.  Claim(s) 1,2 and 22-39 are subject to restriction	vn from consideration.			
Applicati	on Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. ion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priorical application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applic rity documents have been rece u (PCT Rule 17.2(a)).	cation No eived in this National Stage		
2) Notice	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	4) ☐ Interview Summ Paper No(s)/Ma 5) ☐ Notice of Inform			
Pape	r No(s)/Mail Date	6)  Other:	••		

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## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-2, 22-25, 28-31, and 34-39 drawn to genetically modified plants or plants parts that produce daidzein and comprise DNA encoding isoflavone synthase and chalcone reductase.

Group II, claim(s) 26-27, drawn to extracts that comprise daidzein.

Group III, claim(s) 32-33, drawn to methods of administering extracts that contain daidzein or plant parts a genetically modified plant or plant part comprising daidzein.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The special technical feature of a modified plant or plant part expressing a chalcone reductase and an isoflavone synthase producing daidzein is taught in the art. Yu, O. et al. in Plant physiology, Oct. 2000; Vol. 124, pp. 781-793 teach a modified plant part expressing a chalcone reductase and an isoflavone synthase producing daidzein on page 786 column 2 to page 787 column 1. Yu et al tested whether expression of chalcone reductase (CHR) in cells engineered to produce genistein would also synthesize daidzein as well (begining in line 6 of column 2 on page 786). Daidzein was synthesized.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

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The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

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Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103 (a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kallis whose telephone number is (571) 272-0798. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571) 272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Russel Kallis Ph.D. June 22, 2007

RUSSELL P. KALLIS, PH.D.
PRIMARY EXAMINER

Russell Lelly